

101.12 - Steelmaking Alloys (powder form)

These SRMs are for checking chemical methods of analysis for major constituents and selected minor elements. They are furnished as fine powders (usually <0.1 mm).

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM	57b	58a	59a	64c	68c	90	195	196	689
Description		Ferrosilicon (73% Si Regular Grade)					Ferrosilicon (75% Si-HP Grade)		
Unit of Issue	(40 g)	(75 g)	(50 g)	(100 g)	(100 g)	(75 g)	(75 g)	(100 g)	(100 g)

Elemental Composition (mass fraction in %)

Aluminum (Al)	0.1690	0.953	0.35			0.0460		0.049
Arsenic (As)		(0.002)			0.021			(0.009)
Bismuth (Bi)								(<0.003)
Boron (B)	0.001443	(<0.003)	0.058			0.00105		0.0017
Calcium (Ca)	0.00222	0.271	0.042			0.054		
Carbon (C)	(0.02)	0.0143	0.046	4.68	6.72	0.03445	0.035	0.043
Cerium (Ce)								
Chromium (Cr)	0.00173	0.0193	0.080	68.00	0.074	0.0474	70.83	36.4
Cobalt (Co)	0.0015	(<0.03)		0.051		(<0.01)		0.034
Copper (Cu)	0.00172	0.0225	0.052	0.005		0.0468		0.013
Iron (Fe)	0.3400	25.239	50.05	24.98	12.3	23.62		23.2
Lanthanum (La)								
Lead (Pb)							(0.004)	
Magnesium (Mg)								
Manganese (Mn)	0.00782	0.1611	0.75	0.16	80.04	0.1710	(0.282)	0.32

Elemental Composition (mass fraction in %)

Molybdenum (Mo)		(<0.01)				0.01)		
Nickel (Ni)	0.00153	0.0124	0.033	0.43		0.0318		0.20
Nitrogen (N)				0.045			(0.002)	
Oxygen (O)	(0.4)	(0.25)				(<1)		(0.06)
Phosphorus (P)	0.00163	0.0105	0.016	0.020	0.19	26.17	0.0190	0.020
Silicon (Si)		73.13	48.10	1.22	0.225		75.32	0.373
Sulfur (S)	(0.003)	(<0.002)	0.002	0.067	0.008	(<0.002)	0.003	0.002
Tin (Sn)		(<0.005)				(<0.005)		

- Certified values are normal font
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Titanium (Ti)	0.0346	<i>0.0510</i>	0.02	<i>0.0367</i>	0.40
Vanadium (V)	0.0025	(0.002)	0.15	(0.12)	0.09
Zirconium (Zr)	0.00178	(<0.005)		<i>0.0110</i>	

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